

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
31 March 2005 (31.03.2005)

PCT

(10) International Publication Number  
**WO 2005/029774 A2**

(51) International Patent Classification<sup>7</sup>: **H04L 12/28.**  
12/56, 1/16

(21) International Application Number:  
PCT/GB2004/004026

(22) International Filing Date:  
22 September 2004 (22.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0322132.2 22 September 2003 (22.09.2003) GB

(71) Applicant (for all designated States except US): **SYNAD TECHNOLOGIES LIMITED** [GB/GB]; Abbey House, 1650 Arlington Business Park, Theale, Reading Berkshire RG6 4SA (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **MORETON, Michael, John, Vidion** [GB/GB]; 10 Blowhorn Street, Marlborough, Wiltshire SN8 1BT (GB).

(74) Agents: **FROST, Alex, John et al.**; Boulton Wade Tennant, Verulam Gardens, 70 Gray's Inn Road, London WC1X 8BT (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

— of inventorship (Rule 4.17(iv)) for US only

**Published:**

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **METHOD OF DATA HANDLING IN A WLAN**

(57) Abstract: A method of handling data in a wireless LAN comprises contending for control of the medium using a CSMA/CA mechanism or the like. Once control has been established data is sent from the node which has established that control, to a second node. The acknowledgement of receipt issued by that second node in consequence is combined with a payload at that second node and which is intended to be sent to the first node anyway, and a single frame, with the payload piggybacked onto the acknowledgement is returned to the first node. Bidirectional transmission of combined data and acknowledgement continues in a frame bursting manner until a time limit is reached or all data has been transmitted, whereafter contention commences again.



**WO 2005/029774 A2**